

SYSTEM METHOD AND APPARATUS FOR OPTIMAL PERFORMANCE SCALING OF STORAGE MEDIA

ABSTRACT OF THE DISCLOSURE

An apparatus, system, and method are presented for scaling storage media to improve data access performance. A scaling module is provided and configured to receive a dataset, identify storage characteristics of the dataset, make a determination based upon user-defined storage criteria, and select a storage instruction. In one embodiment, the storage instruction is configured to scale the storage medium to a predefined capacity. The predefined capacity of the storage medium is configured to optimize data access performance. Alternatively, the storage instruction is configured to not scale the storage medium. Additionally, the present invention may be configured to map and track the storage medium while the dataset is being written to or read from the storage medium.

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